

ABSTRACT OF THE DISCLOSURE

A system, device, and method for bypassing network changes in a communication network pre-computes recovery paths to protect various primary paths. A fast detection mechanism is preferably used to detect network changes quickly, and communications are switched over from the primary paths to the recovery paths in order to bypass network changes. Forwarding tables are preferably frozen as new primary paths are computed, and communications are switched over from the recovery paths to the new primary paths in a coordinated manner in order to avoid temporary loops and invalid routes. New recovery paths are computed to protect the new primary paths.